

Pub AI

[illegible]

1. A method for mapping input fields in a hypertext document to software components, the method comprising:
 - mapping input field names in a hypertext document to component properties when the hypertext document is rendered;
 - providing the rendered hypertext document to a user;
 - receiving from the user input field data in a named input field; and
 - using the mapping to determine an appropriate component property for the named input field and to call component methods for processing the input field data.
2. The method of claim 1, wherein the rendering includes emitting hypertext form data with a current value of an input field pre-filled in.
3. The method of claim 1, wherein the mapping includes encoding the hypertext form data with a unique name and registering the name.
4. The method of claim 3, wherein the receiving includes determining if the user-submitted input field data is from a hypertext input form and bypassing input field processing if the determination cannot be made.
5. The method of claim 1, wherein the program code is source code of a compiled programming language.

Dubai

6. The method of claim 1, wherein the program code is source code of an interpreted programming language.

7. The method of claim 1, wherein the program code is object code of a compiled programming language.

8. The method of claim 1, wherein the program code is object code of an interpreted programming language.

9. The method of claim 1, further comprising converting the submitted input field data to a correct data type.

10. The method of claim 1, wherein the determining includes iteratively processing input names associated with a component property to determine if data associated with any of the input names has been entered.

11. The method of claim 10, wherein the determining includes processing in order of priority stored with the mapping of the input field names.

12. A system for mapping hypertext input fields to software components comprising: a preprocessor for generating program code to register mappings between hypertext input

Sub A1

field names and component properties and to emit hypertext form tags;

a name-space manager for registering the mappings and rendering the document so that the document can be provided to a user; and

a data handler, responsive to submitted input data with an input field name submitted by a user, for using the mappings to associate input field names with component properties, and for calling appropriate component methods for processing the input data.

13. The system of claim 12, wherein the data handler converts the submitted input data to a correct data type.

14. The system of claim 12, wherein the name-space manager includes a table for mapping a form to input fields, and for mapping input fields to a component property.

15. The system of claim 12, wherein the name-space manager includes a table for mapping a form to input fields, and for mapping input fields to a priority that determines the order in which the data handler processes the input field mappings.

16. A method comprising processing a hypertext document by identifying and storing input field names before sending the document to a user, and in response to receiving input data with input field names from the user, determining appropriate software component methods for processing the input data by looking to the stored input field names, whereby the input names for the input data are determined from the document without requiring that the names be separately

SECRET

Dubai provided in the document and in the software component.

17. The method of claim 16, wherein the storing includes storing a priority for each input name.

SECRET